**Precalculus**

**Chapters 9 and Limits Assignment Sheet**

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| **Date** | **Objectives** | **Textbook Correlation** | **Homework Assignment** |
|  | * Use sequence notation to write the terms of a sequence. * Use factorial notation. * Use summation notation to write sums. * Find the sum of an infinite series. * Use sequences and series to model and solve real-life problems. | 9.1 | p. 621: 5, 17, 25, 27, 41, 55, 71, 83, 87, 89 |
|  | * Recognize and write arithmetic sequences. * Find an nth partial sum of an arithmetic sequence. * Use arithmetic sequences to model and solve real-life problems. | 9.2 | p. 631: 3, 9, 11, 19, 25, 33, 53, 61, 69, 93 |
|  | * Recognize and write geometric sequences. * Find the sum of a geometric sequence. * Find the sum of an infinite geometric series. * Use geometric sequences to model and solve real-life problems. | 9.3 | p. 640: 1, 11, 21, 27, 51, 71, 77 |
|  | **Review Chapter 9** |  | **Study for Chapter 9 Test!!** |
|  | **Chapter 9 Test** |  | No Homework ☺ |
|  | * Explore the limit of a function numerically. | Limits | Worksheet: p. 24, 26, 28, 30 |
|  | * Explore the limit of a function graphically. | Limits | Worksheet: p. 33, 35, 37, 39 |
|  | * Explore the limts of Elementary Functions. | Limits | Worksheet: p. 42, 44, 46, 48 |
|  | * Explore the limit of a summations. | Limits | Worksheet: p. 849: 1, 3, 5, 7, 9, 17, 25 |
|  | **Review Limits** |  | **Study for Limits Test!!** |
|  | **Limits Test** |  | No Homework ☺ |